

# Starting point formulation



## NeoCryl® XK-532 & NeoCryl XK-110

Formulation M-1090, 2K waterborne PUR primer

Weight ratio Component A / Component B = 100 / 14

Raw materials Component A	Weight	Volume% (overall)	Function	Supplier
NeoCryl® XK-532 Add under stirring	23.06	26.29	Binder	DSM Coating Resins
NeoCryl® XK-110	13.84	15.66	Binder	DSM Coating Resins
Solvesso 100	1.85	2.52	Solvent	Exxon Chemical
BYK-012	0.46	0.54	Anti-foaming agent	BYK
Borchi Gen SN95	1.38	1.58	Dispersing agent	OMG Borchers
Kronos 2310	13.84	4.03	Color pigment	Kronos Titan
Blanc Fixe Micro	7.38	2.00	Extender	Sachtleben Chemie
Luzenac 10M2	13.84	5.94	Extender	Imerys talc Europe
Heucophos ZPA	3.70	1.58	Extender	Heubach
Halox 550WF	0.83	1.00		Halox pigments

Disperse in bead mill, fineness: <15µ keep temperature below 35°C

Add all components in let-down under stirring

NeoCryl® XK-110	6.46	7.31	Binder	DSM Coating Resins
Eastman Advantis 510W	7.75	9.56		Eastman
BYK-028	1.38	1.57	Anti-foaming agent	BYK
BYK 346	0.46	0.55	Substrate wetting	BYK
Premix next 3 raw materials				
Borchi Gel thix 921	0.18	0.20		OMG Borchers
Demineralized water	1.75	2.09	Corrosion inhibitor	
Butyl Glycol	1.75	2.31		
Emadox A4	0.09	0.10	Rheology modifier	Labema
Leave to deaerate for one day				
	100.00	84.82		

Add part B under stirring and mix mechanically for a few minutes

Raw materials Component B	Weight	Volume% (overall)	Function	Supplier
Bayhydur 2655	12.00	10.79	X-linker	Bayer
EEP Solvent	2.00	4.39	Solvent	Eastman
	14.00	15.18		

Adjust to spray viscosity with approximately 30% demineralized water, calculated on Part-A

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## NeoCryl<sup>®</sup> XK-532 & NeoCryl XK-110

### Composition data:

Density	1359	kg/m <sup>3</sup>
PVC	30.7	%
NCO/OH	1.65	Sa

Ratio's	Weight%	Volume%
Colour pigments	12.1	4.0
Extenders & Fillers	21.9	9.5
Binders	25.6	30.6
Other solid materials	3.6	5.0
Subtotal: solid materials	63.2	49.2
Volatile organic solvents	6.9	10.2
Other liquid materials	29.9	40.6
Subtotal: liquid materials	36.8	50.8

### Application data:

Applied layer thickness:	100	µm wet
Dry layer thickness	49	µm
CO <sub>2</sub> limit (20°C, 60% RH)	>100	µm dry
Spray viscosity, 6 mm DIN-cup	20	Seconds
Dry to handle, at 60°C	30	Minutes
Dust free time, 23°C 50% RH	30	Minutes
Tack free time, 23°C 50% RH	3	Hours
Pot life	30-45	Minutes
Resulting yields:		
Weight	136	gram/ m <sup>2</sup>
Volume	100	ml/ m <sup>2</sup>
Area	7.4	m <sup>2</sup> / liter
Volatile organic solvents:		
Contents	94	g/ liter

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